

Message Text

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FM SECSTATE WASHDC

TO AMEMBASSY COPENHAGEN

INFO DOD(ISA/FMRA)

CNO

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E.O. 11652: N/A

TAGS: MILI, TGEN, GL

SUBJECT: GEODETIC SURVEYS FOR LORAN-A STATIONS

1. BECAUSE OF SUSPECTED GEODETIC ERRORS IN POSITIONAL ACCURACY OF TWO LORAN-A TRANSMITTER ANTENNAS LOCATED ON KUTKLEK ISLAND AND ORSSUIAOGSSUAQ, GREENLAND, U.S. NAVY PLANS TO REPOSITION THOSE ANTENNAS BY DOPPLER SATELLITE OBSERVATION SURVEY. SURVEY WOULD BE ACCOMPLISHED BY ON-SITE VISIT OF TWO U.S. CIVILIAN SCIENTIFIC PERSONNEL AND ONE ENLISTED USMC TOPOGRAPHIC SURVEYOR FROM U.S. NAVY OCEANOGRAPHIC OFFICE. PREFERRED TIME OF VISIT IS MAY OR JUNE 1974.

2. THE GEOCEIVER SATELLITE TRACKING EQUIPMENT WILL BE OPERATED WITHIN THE BOUNDARIES OF EACH LORAN-A STATION. GEODETIC TIES WILL BE MADE FROM THE GEOCEIVER SITE, WHICH UNCLASSIFIED

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WILL BE MONUMENTED, TO THE LORAN-A ANTENNA, AND TO

GEODETIC CONTROL WITHIN THE STATION BOUNDARIES. TO PROVIDE OPPORTUNITY FOR THE COMPUTATION OF A RIGOROUS SOLUTION, PERMISSION TO CONDUCT GEODETIC SURVEYS IN ALL DIRECTIONS UP TO TWENTY-FIVE MILES FROM EACH STATION IS DESIRED.

3. INSTRUMENTATION TO BE USED BY THE SURVEY TEAM CONSISTS OF AN ANTENNA, PREAMPLIFIER, TRIPOD, CABLE, GEOCEIVER, DATA RECORDER AND BOX OF SPARE PARTS. TOTAL INSTRUMENT PACKAGE WILL BE ABOUT 1200 LBS AND 90 CU FT. THE

GEOCEIVER IS A PORTABLE SATELLITE TRACKING INSTRUMENT DESIGNED TO RECEIVE DOPPLER, IONOSPHERIC REFRACTION AND TIMING FROM ARTIFICIAL EARTH SATELLITES TO DERIVE GEODETIC POSITION. THE OPERATION OF THE GEOCEIVER CONSISTS OF TRACKING THE FIVE NAVY NAVIGATION SATELLITES. FOR EACH SATELLITE 5 TO 13 PASSES PER DAY ARE RECEIVABLE DEPENDENT UPON THE LATITUDE OF THE OBSERVING POSITION. FOR GENERAL GEODETIC POSITIONING IT IS NORMALLY POSSIBLE TO OBTAIN A PRECISE POSITION FOR ANY PLACE IN THE WORLD WITHIN 4 - 8 DAYS, DEPENDING ON LATITUDE.

4. A CLASSIFIED SURVEY REPORT WILL BE FURNISHED ONLY TO THE NAVIGATIONAL SCIENCES DIVISION OF THE DEFENSE MAPPING AGENCY TOPOGRAPHIC CENTER GEODETIC LIBRARY AND THE U.S. COAST GUARD. A SEPARATE UNCLASSIFIED FINAL SURVEY REPORT CAN BE FURNISHED TO THE GOVERNMENT OF DENMARK, IF DESIRED.

5. EMBASSY SHOULD REQUEST DANISH GOVERNMENT AUTHORIZATION FOR VISIT OF THREE U.S. PERSONNEL DESCRIBED ABOVE TO CONDUCT GEODETIC SATELLITE SURVEY AND FOR DUTY-FREE ENTRY AND EXIT THROUGH AIRPORT IN GREENLAND OF EQUIPMENT MENTIONED IN PARAGRAPH 3. PARTICIPATION IN SURVEY BY DANISH GOVERNMENT REPRESENTATIVES IS CORDIALLY INVITED. BECAUSE OF REMOTE LOCATIONS INVOLVED, EMBASSY SHOULD ALSO REQUEST DANISH GOVERNMENT LOGISTICS SUPPORT (LODGING AND MEALS) FOR TEAM WHILE AT BOTH SITES ON REIMBURSABLE BASIS. TRANSPORTATION FROM NEAREST COMMERCIAL AIRPORT TO BOTH SITES AND RETURN FOR SURVEY TEAM AND EQUIPMENT WILL BE NEEDED. ALSO REQUIRED IS APPROXIMATELY 500 WATTS, 50-400 CYCLES, 110-200 VOLTS AC ELECTRICAL POWER FOR UNCLASSIFIED

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GEOCEIVER OPERATIONS.

6. A PRE-SURVEY BRIEFING TO DANISH GOVERNMENT OFFICIALS BY THE SENIOR NAVOCEANO REPRESENTATIVE WILL BE CONDUCTED IF DESIRED BY DANISH GOVERNMENT. RUSH

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